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### 1 [Dynamic access-control policies on XML encrypted data](#)

[Luc Bouganim, Francois Dang Ngoc, Philippe Pucheral](#)

January **Transactions on Information and System Security (TISSEC)**, 2008 Volume 10 Issue 4

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf](#) (583.17 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 22, Downloads (12 Months): 354, Citation Count: 0

The erosion of trust put in traditional database servers and in Database Service Providers and the growing interest for different forms of selective data dissemination are different factors that lead to move the access-control from servers to clients. ...

**Keywords:** Access-control, data confidentiality, smartcard, ubiquitous data management

### 2 [A simple mechanism for capturing and replaying wireless channels](#)

[Glenn Judd, Peter Steenkiste](#)

August **E-WIND '05: Proceedings of the 2005 ACM SIGCOMM workshop on 2005 Experimental approaches to wireless network design and analysis**

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf](#) (6.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 52, Downloads (12 Months): 472, Citation Count: 3

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility ...

**Keywords:** channel capture, emulation, wireless

3 [Logical and physical design issues for smart card databases](#)



[Cristiana Boichini](#), [Fabio Salice](#), [Fabio A. Schreiber](#), [Letizia Tanca](#)

July **Transactions on Information Systems (TOIS)**, Volume 21 Issue 3  
2003

**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (1.12 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
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**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 205, Citation Count: 6

The design of very small databases for smart cards and for portable embedded systems is deeply constrained by the peculiar features of the physical medium. We propose a joint approach to the logical and physical database design phases and evaluate several ...

**Keywords:** Design methodology, access methods, data structures, flash memory, personal information systems, smart card

4 [Privacy-preserving management of transactions' receipts for mobile environments](#)



[Federica Paci](#), [Ning Shang](#), [Sam Kerr](#), [Kevin Steuer, Jr.](#), [Jungha Woo](#), [Elisa Bertino](#)  
April **IDtrust '09: Proceedings of the 8th Symposium on Identity and Trust on 2009 the Internet**

**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (687.73 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 31, Downloads (12 Months): 83, Citation Count: 0

Users increasingly use their mobile devices for electronic transactions to store related information, such as digital receipts. However, such information can be target of several attacks. There are some security issues related to M-commerce: the loss ...

**Keywords:** privacy, registrar, transaction record

5 [FileSpace: an alternative to CardSpace that supports multiple token authorisation and portability between devices](#)



[David Chadwick](#)

April **IDtrust '09: Proceedings of the 8th Symposium on Identity and Trust on 2009 the Internet**

**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (611.25 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 16, Downloads (12 Months): 39, Citation Count: 0

This paper describes a federated identity management system based on long lived encrypted credential files rather than virtual cards and short lived assertions. Users obtain their authorisation credential files from their identity providers and have ...

**Keywords:** CardSpace, X.509 certificates, authorisation, federated identity management, information cards

6 [Skiing the embedded systems mountain](#)



[Ingrid Verbauwhede, Patrick Schaumont](#)

August **Transactions on Embedded Computing Systems (TECS)** , Volume 4  
2005 Issue 3

**Publisher:** ACM [Request Permissions](#)

Full text available: [Pdf](#) (541.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 88, Citation Count: 0

UCLA teaches students how to master the steep slopes of the embedded systems mountain. The EE201A graduate course connects high-level design specification to embedded implementation. There is a long-standing and wide culture gap between system designers ...

**Keywords:** Education, cosimulation, design space exploration

7 [Security and privacy for the next wireless generation](#)

[Pascal Urien, Guy Puiolle](#)

March **International Journal of Network Management** , Volume 18 Issue 2  
2008

**Publisher:** John Wiley & Sons, Inc.

Full text available: [Pdf](#) (736.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 190, Citation Count: 0

This paper presents research performed during the last 4 years (2003-2007), in order to design applications (usually referred as EAP smart cards) which enhance security and privacy in emerging WLAN infrastructures. It introduces smart cards ensuring ...

8 [The Caernarvon secure embedded operating system](#)



[David C. Toll](#), [Paul A. Karger](#), [Elaine R. Palmer](#), [Suzanne K. McIntosh](#), [Sam Weber](#)

January 2008 **SI GOPS Operating Systems Review**, Volume 42 Issue 1

**Publisher:** ACM

Full text available: [Pdf](#) (451.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 155, Citation Count: 0

The Caernarvon operating system was developed to demonstrate that a high assurance system for smart cards was technically feasible and commercially viable. The entire system has been designed to be evaluated under the Common Criteria at EAL7, the highest ...

**Keywords:** PDAs, common criteria evaluation, embedded systems, mandatory access controls, mobile phones, operating systems, smart cards

9 [Hardware support for code integrity in embedded processors](#)



[Milena Milenkovi\\*](#), [Aleksandar Milenkovi\\*](#), [Emil Jovanov](#)

September 2005 **CASES '05: Proceedings of the 2005 international conference on Compilers, architectures and synthesis for embedded systems**

**Publisher:** ACM

Full text available: [Pdf](#) (371.76 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 62, Citation Count: 4

Computer security becomes increasingly important with continual growth of the number of interconnected computing platforms. Moreover, as capabilities of embedded processors increase, the applications running on these systems also grow in size and complexity, ...

**Keywords:** attacks, code injection, code integrity

10 [Smart card evolution](#)



[Katherine M. Sheller](#), [J. Drew Proca](#)

July 2002 **Communications of the ACM**, Volume 45 Issue 7

**Publisher:** ACM [Request Permissions](#)

Full text available: [Html](#) (31.22 KB), [Pdf](#) (110.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 23, Downloads (12 Months): 422, Citation Count: 2

Smart cards and their related technologies are an emerging component of electronic commerce worldwide. In some countries, they are revolutionizing aspects of commerce, healthcare, and recreation.

11 [Using smart cards for secure and device independent user interfaces](#)



[Robbie Schaefer](#), [Wolfgang Mueller](#), [Andres Marán López](#), [Daniel Díaz Sánchez](#)

September  
2007

**Mobility '07**: Proceedings of the 4th international conference on mobile technology, applications, and systems and the 1st international symposium on Computer human interaction in mobile technology

**Publisher:** ACM

Full text available: [Pdf](#) (254.54 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 139, Citation Count: 0

Smart Cards are becoming a ubiquitous means for securing a wide range of interactive applications. However in many cases its use is limited for authentication purposes only. In this paper we extend the use of smart cards for carrying abstract user interface ...

**Keywords:** abstract user interface, device independence, smart card

12 [Privacy and security in library RFID: issues, practices, and architectures](#)



[David Molnar](#), [David Wagner](#)

October  
2004

**CCS '04**: Proceedings of the 11th ACM conference on Computer and communications security

**Publisher:** ACM

Full text available: [Pdf](#) (241.45 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 76, Downloads (12 Months): 830, Citation Count: 30

We expose privacy issues related to Radio Frequency Identification (RFID) in libraries, describe current deployments, and suggest novel architectures for library RFID. Libraries are a fast growing application of RFID; the technology promises to relieve ...

**Keywords:** RFID, privacy, private authentication, security

13 [A digital rights enabled graphics processing system](#)



[Weidong Shi](#), [Hsien-Hsin S. Lee](#), [Richard M. Yoo](#), [Alexandra Boldyreva](#)

September  
2006

**GH '06**: Proceedings of the 21st ACM SIGGRAPH/ Eurographics symposium on Graphics hardware

**Publisher:** ACM

Full text available: [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 1


With the emergence of 3D graphics/arts assets commerce on the Internet, to protect their intellectual property and to restrict their usage have become a new design challenge. This paper presents a novel protection model for commercial graphics data by ...

14 [Countermeasures for attacks on satellite TV cards using open receivers](#)

[Lishoy Francis](#), [William G. Sirett](#), [Keith Mayes](#), [Konstantinos Markantonakis](#)

January 2005 **ACSW Frontiers '05: Proceedings of the 2005 Australasian workshop on Grid computing and e-research - Volume 44**, Volume 44

**Publisher:** Australian Computer Society, Inc.

Full text available:  [Pdf](#) (100.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 56, Citation Count: 1

Digital content providers seek to restrict usage by implementing conditional access. One such scenario is the security aspects of digital video broadcast (DVB-S). There has been a history of attacks on this technology to circumvent any security measures ...

**Keywords:** DVB, attacks and countermeasures, satellite content


15 [Trust and traceability in electronic commerce](#)



[Dennis D. Steinauer](#), [Shukri A. Wakid](#), [Stanley Rasberry](#)

September 1997 **StandardView**, Volume 5 Issue 3

**Publisher:** ACM 

Full text available:  [Pdf](#) (46.16 KB) Additional Information: [full citation](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 73, Citation Count: 3


16 [A low-resource public-key identification scheme for RFID tags and sensor nodes](#)



[Yossef Oren](#), [Martin Feldhofer](#)

March 2009 **WiSec '09: Proceedings of the second ACM conference on Wireless network security**

**Publisher:** ACM 

Full text available:  [Pdf](#) (552.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 60, Downloads (12 Months): 138, Citation Count: 0

We revisit a public key scheme presented by Shamir in [19] (and simultaneously by Naccache in [15]) and examine its applicability for general-purpose RFID tags in the supply chain. Using a combination of new and established space-saving methods, we present ...


**Keywords:** hardware implementation, public-key encryption, rabin encryption, rfid technology

17 PicoDBMS: Scaling down database techniques for the smartcard

Philippe Pucheral, Luc Bouganim, Patrick Valduriez, Christophe Bobineau

September **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 2-3  
2001

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  Pdf (259.03 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 65, Citation Count: 10

Smartcards are the most secure portable computing device today. They have been used successfully in applications involving money, and proprietary and personal data (such as banking, healthcare, insurance, etc.). As smartcards get more powerful (with ...

**Keywords:** Atomicity, Durability, Execution model, PicoDBMS, Query optimization, Smartcard applications, Storage model


18 RFID security without extensive cryptography



Sindhu Karthikeyan, Mikhail Nesterenko

November **SASN '05: Proceedings of the 3rd ACM workshop on Security of ad hoc and sensor networks**

**Publisher:** ACM 

Full text available:  Pdf (117.74 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 275, Citation Count: 7

A Radio Frequency Identification Device (RFID) allows effective identification of a large number of tagged objects without physical or visual contact. RFID systems are a promising technology for supply chain management and inventory control. As individual ...

**Keywords:** RFID, privacy, security


19 Formalizing the safety of Java, the Java virtual machine, and Java card



Pieter H. Hartel, Luc Moreau

December **Computing Surveys (CSUR)**, Volume 33 Issue 4  
2001

**Publisher:** ACM 

Full text available:  Pdf (442.86 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 33, Downloads (12 Months): 421, Citation Count: 13

We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java safety on small footprint devices such as smartcards. The conclusion is that although a lot of good work has been done, a more concerted effort is ...

**Keywords:** Common criteria, programming

20 [interactions: Volume 16 Issue 2](#)



March 2009

**Publisher:** ACM

interactions

Full text available: [Digital Edition](#) , Pdf (17.31 MB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 318, Downloads (12 Months): 645, Citation Count: 0

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